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Notice of Allowability	miner	Art Unit
	k Rekstad	2613
The MAILING DATE of this communication appears of All claims being allowable, PROSECUTION ON THE MERITS IS (OR Inherewith (or previously mailed), a Notice of Allowance (PTOL-85) or ot NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHT of the Office or upon petition by the applicant. See 37 CFR 1.313 and	REMAINS) CLOSED in the commestion in the second sec	n this application. If not included unication will be mailed in due course. <b>THIS</b>
1. X This communication is responsive to Amendment filed March 2,	<u>2005</u> .	
2. ⊠ The allowed claim(s) is/are <u>1,2 and 15-62</u> .		
3. $igotimes$ The drawings filed on <u>15 May 2001</u> are accepted by the Examin	er.	
<ul> <li>4. Acknowledgment is made of a claim for foreign priority under 3 <ul> <li>a) All</li> <li>b) Some*</li> <li>c) None</li> <li>of the:</li> <li>1. Certified copies of the priority documents have been</li> <li>2. Certified copies of the priority documents have been</li> <li>3. Copies of the certified copies of the priority documents international Bureau (PCT Rule 17.2(a)).</li> <li>* Certified copies not received:</li> </ul> </li> <li>Applicant has THREE MONTHS FROM THE "MAILING DATE" of this</li> </ul>	n received. In received in Application Ints have been receive	on No  In this national stage application from the
noted below. Failure to timely comply will result in ABANDONMENT  THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.  5. A SUBSTITUTE OATH OR DECLARATION must be submitted.  INFORMAL PATENT APPLICATION (PTO-152) which gives rea	Note the attached EX	
6. $\square$ CORRECTED DRAWINGS ( as "replacement sheets") must be s	submitted.	
(a) I including changes required by the Notice of Draftsperson's	Patent Drawing Review	w ( PTO-948) attached
1)  hereto or 2)  to Paper No./Mail Date		
(b) ☐ including changes required by the attached Examiner's Ame Paper No./Mail Date	endment / Comment o	r in the Office action of
Identifying indicia such as the application number (see 37 CFR 1.84(c)) each sheet. Replacement sheet(s) should be labeled as such in the hea	should be written on t ader according to 37 CF	he drawings in the front (not the back) of R 1.121(d).
7. DEPOSIT OF and/or INFORMATION about the deposit of attached Examiner's comment regarding REQUIREMENT FOR	BIOLOGICAL MAT THE DEPOSIT OF BIO	ERIAL must be submitted. Note the OLOGICAL MATERIAL.
Attachment(s)	E	Samuel Detail Ameliantics (DTO 450)
<ol> <li>Independent of Notice of References Cited (PTO-892)</li> <li>Independent Drawing Review (PTO-948)</li> </ol>		iformal Patent Application (PTO-152) ummary (PTO-413),
3. 🔯 Information Disclosure Statements (PTO-1449 or PTO/SB/08),	Paper No.	/Mail Date Amendment/Comment
Paper No./Mail Date 4.	8. 🛛 Examiner's	Statement of Reasons for Allowance
of Biological Material	9.  Other	CHRIS KELLEY RVISORY PATENT EXAMINER CHNOLOGY CENTER 2600

U.S. Patent and Trademark Office PTOL-37 (Rev. 1-04)

Application/Control Number: 09/854,463

Art Unit: 2613

## **DETAILED ACTION**

This is an allowance for application no. 09/854,463 in response to the amendment filed on March 2, 2005 in which claims 1-2 and 15-62 are presented for examination.

## Allowable Subject Matter

The following is an examiner's statement of reasons for allowance:

The claims pertain to a novel methods and apparatuses for coding and decoding video that the examiner was unable to find in several prior art searches.

In regards to claims 1 and 2, US Patent 5,410,553 to Choon teaches the use of the frame type to determine which type of error concealment method to use (Col 2 Lines 34-43, Col 5 Lines 5-25, Fig. 5). Choon further teaches the use of the error concealing method used in a decoder (Col 4 Lines 41-63, Col 7-Col 8, Fig. 4). Choon further teaches the uses of the error concealing method for block-based video coding systems such as MPEG. Choon does not teach how the frame type is decided.

US Patent 6,351,493 to Reed et al. teaches a scene change detecting method, which codes a frame as an I-frame when the difference between two frames is above a threshold in order to prevent the propagation of quantization artifacts (Col 3 Lines 11-35, Col 4 Lines 24-30, Col 5 Lines 44-45, Fig. 2). Reed further teaches the use of the scene change detection method in video coding schemes such as MPEG-1, MPEG-2 and H.263 (Col 3 Lines 50-53). It would have been obvious to one of ordinary skill in the art at the time of the invention to combine the encoder of Reed with the decoder of

Application/Control Number: 09/854,463

Art Unit: 2613

Choon as both are used for MPEG coding scheme. Reed further teaches the including of the frame type in the header as required by claim 3 (Col 3 Lines 63-65).

Reed further teaches the indicator (frame type) is updated when the measure of similarity does not meet the predetermined criterion of similarity (number of non-intra coded macroblocks) (Col 5 Lines 39-46). Reed further teaches the including of the frame type in the header (Col 3 Lines 63-65).

Choon and Reed do not teach the video signal is encoded according to the H.263 standard and the indicator (frame type) is included in the Supplemental Enhancement Information. These features taken with the others in the claims define over the prior art.

In regards to claims 15-62, Choon and Reed teach the use of the frame type as the indicator for error concealment method as shown above. Choon and Reed do not teach a separate error concealment method indicator provided in the encoded video signal as required by the independent claims 15, 21, 23, and 26. These features taken with the others in the claims define over the prior art.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Erick Rekstad whose telephone number is 571-272-7338. The examiner can normally be reached on 8-5.

Art Unit: 2613

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chris Kelley can be reached on 571-272-7331. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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